

Work Order ID 129284

Monday, February 02, 2015 1:23:24 PM

129284

Ship 2/3

Page 1

Item ID: D205-633-021

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 2/3/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: UMF Date: 15-2-2

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr

Revision Nbr

IIN-D205-633

C

100

Document Control

0.00

DAS
27
9-89

100

DC

DOCUMENT CONTROL

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP D205-633-021 CHG001

UMF 15-2-2

(1x)

DAS
46
9-89

FEB 02 2015

110

Pick Kit

0.00

DAS
27
9-89

110

Packaging

Memo

0.00

Packaging

FEB 02 2015



120

/QC4-100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

(1x)

DAS
46
9-89

FEB 02 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
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☐ Outside Dimensions
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge

☐ Pressure/Forced
☐ Set-up
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled
☐ Other

Work Order ID 129284

129284

Page 2

Monday, February 02, 2015 1:23:24 PM

Item ID: D205-633-021

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 2/3/2015 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

130

0.00

130

Packaging

0.00

Packaging

Memo

Identify and pack for shipping as per PPP D205-633-021 Location: _____ * Sold

PPP Rev: _____

DAS
46
9-80
FEB 02 2015

1x

140

QC21 - Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

Quality Control

M-2 15-02-03

W15-02-03

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 1

Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B Added D2565-111 05-09-09 KJ/JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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AN4-11A		Purchased	No			110	Each	302.0000	1	1		DAS 27 9-89	
AN4-11A BOLT DAS 46 9-89 ** FEB 02 2015													

Location	Loc Qty	Loc Code
FG	20	
120731	20	
ST325A	282	
11921	1	
M128362	280	
M128769	1	

AN4-14A		Purchased	No			110	Each	260.0000	1	1		DAS 27 9-89	
AN4-14A Bolt DAS 46 9-89 ** FEB 02 2015													

Location	Loc Qty	Loc Code
FG	5	
122141	5	
ST325A	240	
M131153	240	
ST344	15	
M130716	15	

AN44-7A		Purchased	No			110	Each	16.0000	1	1		DAS 27 9-89	
AN44-7A Eyebolt DAS 46 9-89 ** FEB 02 2015													

Location	Loc Qty	Loc Code
ST339	16	
17930	4	
m125842	12	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☐									
Offset/Setup ☐									
Process ☐									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

AN4-5A

Purchased

No

110

Each

84.0000

0

1

AN4-5A
BOLT

DAS
46
9-89

**

DAS
27
9-89

FEB 02 2015

Location

Loc Qty

Loc Code

CA

57

m129682

57

ST346

27

106605

1

120562

2

m129682

24

AN4-6A

Purchased

No

110

Each

2,094.000

4

4

AN4-6A
BOLT

DAS
46
9-89

**

DAS
27
9-89

FEB 02 2015

Location

Loc Qty

Loc Code

CA

43

M128403

43

ST325A

2043

16067

2

M126317

41

M128634

100

M130716

200

M130851

100

M131153

1600

ST345

8

M128403

8

AN4-7A

Purchased

No

110

Each

111.0000

0

1

AN4-7A
Bolt

DAS
46
9-89

**

DAS
27
9-89

FEB 02 2015

Location

Loc Qty

Loc Code

ST345

111

m126193

11

m131320

100

Monday, February 02, 2015 1:23:21 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

Page 3

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Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

AN5-14A Purchased No 110 Each 22.0000

AN5-14A
BoltDAS
46
9-89

**

DAS
27
FEB 02 2015LocationLoc QtyLoc Code

ST337

22

m131139

22

D2022-101 Manufactured No 110 Each 142.0000

D2022-101
SpacerDAS
46
9-89

**

DAS
27
FEB 02 2015LocationLoc QtyLoc Code

ST025A

142

103016

50

106235

12

107903

80

D2022-103 Manufactured No 110 Each 83.0000

D2022-103
SpacerDAS
46
9-89

**

DAS
27
FEB 02 2015LocationLoc QtyLoc Code

ST002

83

105601

48

123938

33

116062

2

D2562-011 Manufactured No 110 Each 7.0000

D2562-011
Strut 25.79"DAS
46
9-89

**

DAS
27
FEB 02 2015LocationLoc QtyLoc Code

ST353

7

102447

1

110179

5

76076

1

Monday, February 02, 2015 1:23:22 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

D2563 Manufactured No

110 Each

4.0000

1 1

D2563
Step Weldment Assembly

DAS
46
9-89

**

DAS
27
9-89
FEB 12 2015

Location

Loc Qty

Loc Code

FG

4

B20841

126841

4

D2565-101 Manufactured No

110 Each

12.0000

1 1

D2565-101
Strut

DAS
46
9-89

**

DAS
27
9-89
FEB 12 2015

Location

Loc Qty

Loc Code

ST353

12

114928

6

121423

6

D2565-103 Manufactured No

110 Each

10.0000

1 1

D2565-103
Strut

DAS
46
9-89

**

DAS
27
9-89
FEB 12 2015

Location

Loc Qty

Loc Code

ST353

10

121437

6

127363

4

D2565-105 Manufactured No

110 Each

11.0000

1 1

D2565-105
Strut

DAS
46
9-89

**

DAS
27
9-89
FEB 12 2015

Location

Loc Qty

Loc Code

ST353

11

117052

6

121571

5

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. <u>70</u> <u>7*</u>	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Crosstube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge		
☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other		

Picklist Print

Monday, February 02, 2015 1:23:22 PM

Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

D2565-107 Manufactured No

110 Each 14.0000 1 1

D2565-107

Strut

DAS

46

9-89

**

DAS

27

9-89

Location

Loc Qty

Loc Code

ST354

14

115166

6

121672

8

FEB 02 2015

D2565-109 Manufactured No

110 Each 12.0000 1 1

D2565-109

Strut

DAS

46

9-89

**

DAS

27

9-89

Location

Loc Qty

Loc Code

ST354

12

108460

1

120385

5

123039

6

FEB 02 2015

D2565-111 Manufactured No

110 Each 10.0000 1 1

D2565-111

Strut

DAS

46

9-89

**

DAS

27

9-89

Location

Loc Qty

Loc Code

ST354

10

110260

4

121587

6

FEB 02 2015

D3437-041 Manufactured No

110 Each 2.0000 1 1

D3437-041

Aft Strut Assembly

DAS

46

9-89

**

DAS

27

9-89

Location

Loc Qty

Loc Code

ST502

2

114986

2

FEB 02 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--

Picklist Print

Monday, February 02, 2015 1:23:22 PM

Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

3,471.000

8

8

MS21042L4

DAS

46

Locknut

9-89

**

FEB 02 2015

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

704

m127813

704

ST260a

2192

m130799

992

m131340

1200

ST305

533

426

426

m128300

8

m130922

99

MS21042L5

Purchased

No

110

Each

933.0000

2

2

MS21042L5

DAS

46

Nut

9-89

**

FEB 02 2015

Location

Loc Qty

Loc Code

GA

496

m127813

496

ST305

437

m131340

437

~~m130799~~
m131340

2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. <u>00001</u>	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence
		☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge
		☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other

Picklist Print

Page 7

Monday, February 02, 2015 1:23:22 PM

Work Order ID: 129284

129284

Parent Item: D205-633-021

D205-633-021

Parent Item Name: Heli-Access-Step™ LH - High Gear, Simplex Tank Compatible

Start Date: 2/2/2015

Required Date: 2/3/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0463J

Purchased

No

110

Each

4,111.000

16

16

NAS1149D0463.J
WASHER

DAS
46
9-89

**

000
12
SWD

FEB 02 2015

Location

Loc Qty

Loc Code

CA 397

M129682 397

GA 408

M129390 408

ST260a 1153

M129390 1153

ST269 2153

M129390 4

M130799 2149

NAS1149D0563J

Purchased

No

110

Each

1,765.000

3

3

NAS1149D0563.J
Washer

DAS
46
9-89

**

000
12
SWD

FEB 02 2015

Location

Loc Qty

Loc Code

GA 130

m125807 130

ST260a 400

m130799 400

ST269 235

16527 4

m128257 231

ST271 1000

m131026 1000

Monday, February 02, 2015 1:23:23 PM

Shop Packet Print

Page 7

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear	General	Other
☐ Bending	☐ Bend	☐ Folio/Program
☐ Centre Not Concentric	☐ BOM/Route	☐ Grain
☐ Cracks	☐ Broken/Damage/Defect	☐ Hardware
☐ Crimp/Kink/Ripple/Wave	☐ Burrs	☐ Inspection Incomplete/Unqualified
☐ Cuffs	☐ Contamination	☐ Instructions Incomplete/Unclear
☐ Crushing	☐ Countersink	☐ Misaligned/off center
☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled
☐ Inspection Strip in Tube	☐ Drawing	☐ Misread
☐ Marks/Chatter	☐ Drill Holes	☐ Off-set
☐ Turning Sequence	☐ Finish	☐ Out of Calibration
☐ Wave/Twist in Tube	☐ Fit/Function	☐ Out of Sequence
		☐ Outside Dimensions
		☐ Over/Under tolerance
		☐ Part Incorrect
		☐ Part Lost/Missing
		☐ Part Moved
		☐ Positioned Wrong
		☐ Power Loss/Surge
		☐ Pressure/Forced
		☐ Set-up
		☐ Temperature/Cure
		☐ Weld
		☐ Wrong Stock Pulled
		☐ Other

REFERENCE ONLY

FEB 02 2015

DART AEROSPACE LTD.

DAS
46
9-89

IIN-D205-633

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5.2 D205-633-021/-022/-023/-024/-025/-026 Heli-Access Step (Simplex Model 304 Fire Attack Tank Compatible)

QTY -021	QTY -022	QTY -023	QTY -024	QTY -025	QTY -026	Part Number	Description
X						D205-633-021	Heli-Access-Step™ (LH), High Gear
	X					D205-633-022	Heli-Access-Step™ (RH), High Gear
		X				D205-633-023	Heli-Access-Step™ (LH), Extended High Gear (31")
			X			D205-633-024	Heli-Access-Step™ (RH), Extended High Gear (31")
				X		D205-633-025	Heli-Access-Step™ (LH), Extended High Gear (39")
					X	D205-633-026	Heli-Access-Step™ (RH), Extended High Gear (39")
4	4	4	4	4	4	D2022-101	SPACER
2	2	2	2	2	2	D2022-103	SPACER
				1	1	D2562-005	STRUT
1	1					D2562-011	STRUT
		1	1			D2562-013	STRUT
1	1	1		1		D2563	WELDMENT ASSEMBLY
1	1					D2565-101	STRUT
1	1					D2565-103	STRUT
1	1					D2565-105	STRUT
1	1					D2565-107	STRUT
1	1					D2565-109	STRUT
1	1					D2565-111	STRUT
		1	1			D2565-201	STRUT
		1	1			D2565-203	STRUT
		1	1			D2565-205	STRUT
		1	1			D2565-207	STRUT
		1	1			D2565-209	STRUT
		*1	*1			D2565-211	STRUT
				1	1	D2565-301	STRUT
				1	1	D2565-303	STRUT
				1	1	D2565-305	STRUT
				1	1	D2565-307	STRUT
				1	1	D2565-309	STRUT
				*1	*1	D3165-1	SUPPORT ARM
1	1					D3437-041	AFT STRUT ASSEMBLY
		1	1			D3437-043	AFT STRUT ASSEMBLY
				1	1	D3437-045	AFT STRUT ASSEMBLY
	1		1		1	D3438-042	WELDMENT ASSEMBLY
1	1	1	1	1	1	AN4-5A	BOLT
4	4	3	3	3	3	AN4-6A	BOLT
1	1	1	1	1	1	AN4-7A	BOLT
1	1					AN4-11A	BOLT
		1	1	1	1	AN4-12A	BOLT
1	1	1	1	1	1	AN4-14A	BOLT
1	1	1	1	1	1	AN44-7A	EYEBOLT
1	1	1	1	1	1	AN5-14A	BOLT
16	16	14	14	14	14	AN960JD416	WASHER
3	3	3	3	3	3	AN960JD516	WASHER
8	8	7	7	7	7	MS21042L4	NUT (or MS21042-4)
2	2	2	2	2	2	MS21042L5	NUT (or MS21042-5)

* ONLY INSTALLED IF TANK IS REMOVED

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Revision: C
Date: 13.12.13